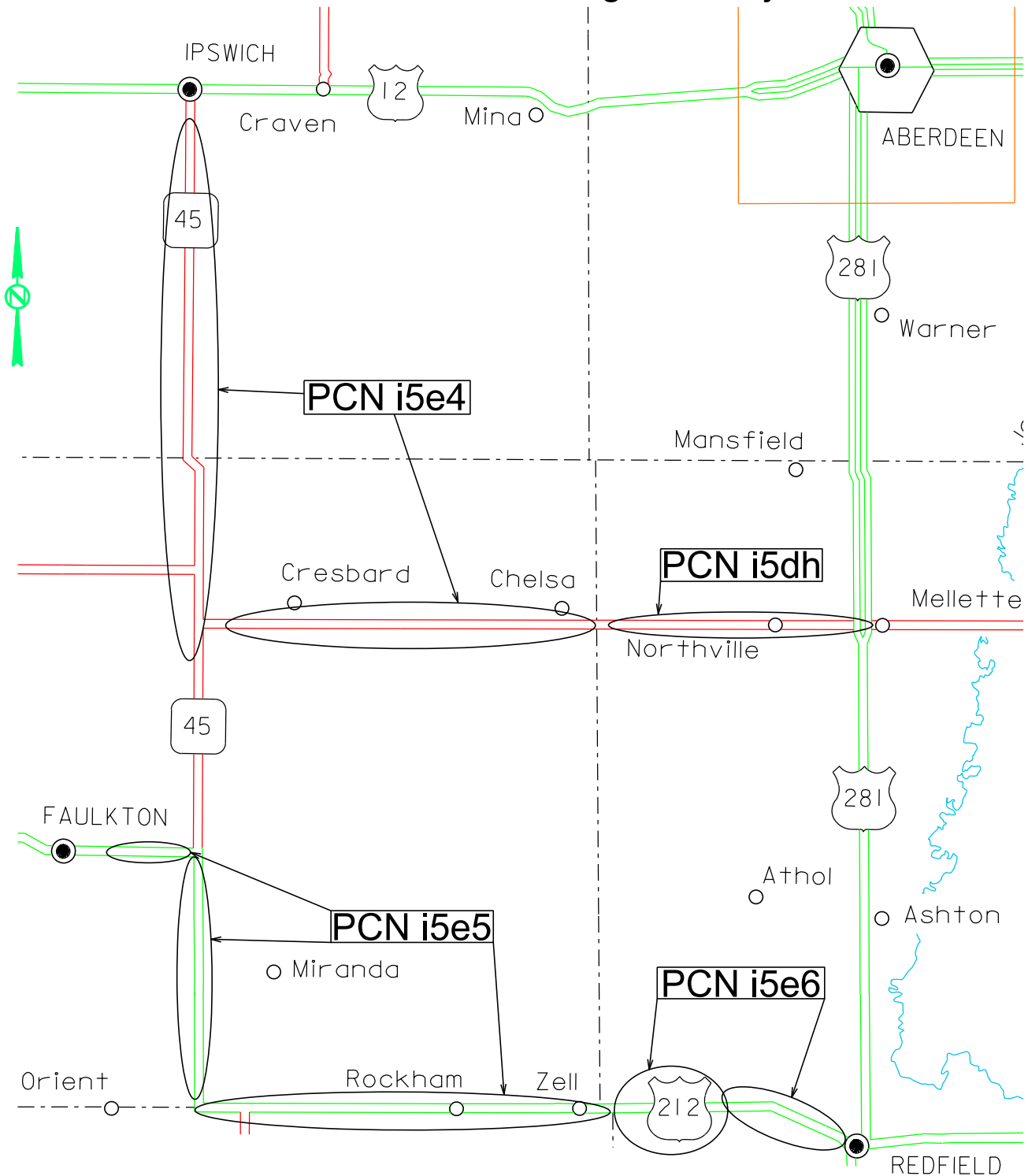


# PROJECT 000N-151, 000N-152, 000P-152 & 000P-192

## PCN i5dh, i5e4, i5e5 & i5e6

### Remove debris from Right of Way



## INDEX OF PLAN SHEETS

Sheet No. 1	Layout Map
Sheet No. 2 and 3	Index of Plan Sheets and Estimate of Quantities
Sheet No. 4 and 5	Table of Quantities
Sheet No. 6 and 7	Specifications and Plan Notes
Sheet No. 8, 9 and 10	Standard Plates

## Estimate of Quantities

### PCN i5dh

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
250E0010	Incidental Work	Lump Sum	LS
634E0010	Flagging	20.0	Hour
634E0110	Traffic Control Signs	137.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
730E0202	Type B Permanent Seed Mixture	73	Lb

### PCN i5e4

BID ITEM NUMBER	ITEM	QUANTITY	UNIT
009E0010	Mobilization	Lump Sum	LS
250E0010	Incidental Work	Lump Sum	LS
634E0010	Flagging	60.0	Hour
634E0110	Traffic Control Signs	137.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
730E0202	Type B Permanent Seed Mixture	513	Lb

**PCN i5e5**

<b>BID ITEM NUMBER</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>
009E0010	Mobilization	Lump Sum	LS
250E0010	Incidental Work	Lump Sum	LS
634E0010	Flagging	25.0	Hour
634E0110	Traffic Control Signs	137.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
730E0202	Type B Permanent Seed Mixture	140	Lb

**PCN i5e6**

<b>BID ITEM NUMBER</b>	<b>ITEM</b>	<b>QUANTITY</b>	<b>UNIT</b>
009E0010	Mobilization	Lump Sum	LS
250E0010	Incidental Work	Lump Sum	LS
634E0010	Flagging	25.0	Hour
634E0110	Traffic Control Signs	137.0	SqFt
634E0120	Traffic Control, Miscellaneous	Lump Sum	LS
730E0202	Type B Permanent Seed Mixture	106	Lb

Site	Highway	Begin	END	Side of road	Length		Width	Area	Area	Average Depth	Type B Permanent Seed
					Miles	Feet					
	Project 000N-152	MRM	PCN i5e4								
1	45	157+0.055	157 +0.095	WEST	0.040	210	40	933	0.19	4	3
2	45	161+0.842	162 +0.900	WEST	0.058	305	30	1017	0.21	2	4
3	45	162+0.138	162 +0.323	WEST	0.185	977	30	3257	0.67	2	12
4	45	162 +0.884	163 +0.394	WEST	0.510	2692	8	2393	0.49	3	9
5	45	163 +0.394	163 + 0.797	WEST	0.403	2127	30	7090	1.46	3	26
6	45	163 + 0.867	164 +0.044	WEST	0.277	1463	35	5689	1.18	5	21
7	45	168+0.916	170 +0.039	WEST	1.123	5930	30	19767	4.08	5	74
8	45	171+0.225	171 + 0.502	WEST	0.006	30	46	153	0.03	2	1
9	45	172+0.566	173 +0.937	WEST	0.371	1960	35	7622	1.57	4	28
10	45	173+0.090	173 +0.245	WEST	0.155	820	20	1822	0.38	2	7
11	45	175 +0.230	175+0.830	WEST	0.599	3165	35	12308	2.54	3	46
12	20	303 +0.969	304 +0.363	SOUTH	0.394	2081	20	4624	0.96	4	17
13	20	305 +0.814	305 +0.000	SOUTH	0.186	980	60	6533	1.35	4	24
14	20	305 +0.000	305 +0.138	SOUTH	0.138	726	60	4840	1.00	2	18
15	20	305 +0.216	305 +0.285	SOUTH	0.069	364	60	2427	0.50	2	9
16	20	305 +0.811	306 +0.054	SOUTH	0.241	1274	60	8493	1.75	6	32
17	20	307 +0.814	308 +0.071	SOUTH	0.257	1357	60	9047	1.87	5	34
18	20	308 +0.648	309 +0.139	SOUTH	0.490	2588	60	17253	3.56	4	64
19	20	309 +0.738	310 +0.010	SOUTH	0.272	1436	60	9573	1.98	4	36
20	20	310 +0.251	310 +0.623	SOUTH	0.372	1965	60	13100	2.71	4	49
Total							137941	28.50	513		

Site	Highway	Begin	END	Side of road	Length		Width	Area	Area	Average Depth	Type B Permanent Seed
					Miles	Feet		SqYd	Acre	Inches	Lb
	<b>Project 000N-151</b>		<b>PCN i5dh</b>								
21	20	312 +0.646	312 +0.832	SOUTH	0.186	980	60	6533	1.35	4	24
22	20	320 +0.049	320 +0.159	NORTH	0.110	581	66	4261	0.88	6	16
23	20	319 +0.974	320 +0.199	SOUTH	0.225	1190	66	8727	1.80	6	32
	Total						<b>Total</b>	<b>19521</b>	<b>4.03</b>		<b>73</b>
	<b>Project 000P-152</b>		<b>PCN i5e5</b>								
24	212	269+0.238	269 +0.736	SOUTH	0.498	2632	40	11698	2.42	4	44
25	212	270+0.225	270 +0.717	SOUTH	0.492	2600	20	5778	1.19	3	21
26	212	273 +0.708	274 +0.335	WEST	0.627	3309	5	1838	0.38	3	7
27	212	279 +0.408	279 +0.530	WEST	0.122	646	8	574	0.12	2	2
28	212	282 +0.723	283.2 +0.000	SOUTH	0.477	2516	30	8387	1.73	4	31
29	212	290+0.426	290 +0.693	SOUTH	0.267	1410	40	6267	1.29	7	23
30	212	296+0.130	296 +0.309	SOUTH	0.179	945	30	3150	0.65	7	12
							<b>Total</b>	<b>37692</b>	<b>7.79</b>		<b>140</b>
	<b>Project 000P-192</b>		<b>PCN i5e6</b>								
31	212	297 +0.589	297 + 0.958	SOUTH	0.369	1948	20	4329	0.89	3	16
32	212	300+0.021	300 +0.276	SOUTH	0.256	1350	30	4500	0.93	5	17
33	212	300+0.276	300 +0.647	SOUTH	0.371	1961	12	2615	0.54	3	10
34	212	300 +0.680	301 +0.032	SOUTH	0.352	1860	30	6200	1.28	5	23
35	212	301+0.184	301 +0.458	SOUTH	0.274	1447	8	1286	0.27	4	5
36	212	301 +0.458	302+0.000	SOUTH	0.542	2864	30	9547	1.97	6	36
							<b>Total</b>	<b>28477</b>	<b>5.88</b>		<b>106</b>

## **SPECIFICATIONS**

Standard Specifications for Roads and Bridges, 2015 Edition and Required Provisions, Supplemental Specifications, and Special Provisions as included in the Proposal.

## **GENERAL NOTES**

The Contractor shall remove the corn stalks and topsoil that blew into the Right of Way at the locations specified in the tables provided. Care shall be taken to minimize the disturbance to the existing sod and maintain the shape of the ditch. Burning the corn stalks in the Right of Way will not be permitted. It is recommended that the Contractor inspect each site prior to bidding.

Payment will be based upon plans quantity.

## **TRAFFIC CONTROL**

The work shall be completed using Standard Plates 634.01, 634.03 or 634.23. Work activities during non-daylight hours are subject to prior approval.

Any damage to the vegetation, surfacing, embankment, delineators and existing signs beyond work limits shall be repaired and/or restored by the Contractor, at no expense to the State, and to the satisfaction of the Engineer.

Flaggers shall be present when work activities or equipment present a hazard to workers and/or traffic.

The bottom of signs on portable or temporary supports shall not be less than seven feet above the pavement in urban areas and one foot above the pavement in rural areas. Portable sign supports may be used as long as the duration is less than 3 days. If the duration is more than 3 days the signs shall be on fixed location, ground mounted, breakaway supports.

Traffic Control shall be set up for each site individually.

Work zones shall not exceed 2 miles in length.

## **ITEMIZED LIST FOR TRAFFIC CONTROL SIGNS**

SIGN CODE	SIGN DESCRIPTION	CONVENTIONAL ROAD			
		NUMBER	SIGN SIZE	SQFT PER SIGN	SQFT
W20-1	ROAD WORK AHEAD	2	48" x 48"	16.0	32.0
W20-4	ONE LANE ROAD AHEAD	2	48" x 48"	16.0	32.0
W20-7	FLAGGER (symbol)	2	48" x 48"	16.0	32.0
W21-5	SHOULDER WORK	2	48" x 48"	16.0	32.0
G20-2	END ROAD WORK	2	36" x 18"	4.5	9.0
		CONVENTIONAL ROAD TRAFFIC CONTROL SIGNS SQFT			
		137.0			

### **PERMANENT SEEDING**

The areas to be seeded consist of all disturbed areas within the project limits.

Type B Permanent Seed Mixture shall consist of the following:

Grass Species	Variety	Pure Live Seed (PLS) (Pounds/Acre)
Western Wheatgrass	Arriba, Flintlock, Rodan, Rosana, Walsh	7
Switchgrass	Dacotah, Forestburg, Nebraska 28, Pathfinder, Summer, Sunburst, Trailblazer	3
Indiangrass	Holt, Tomahawk, Chief, Nebraska 54	3
Big Bluestem	Bison, Bonilla, Champ, Sunnyview, Rountree, Bonanza	3
Canada Wildrye	Mandan	2
Total:		18

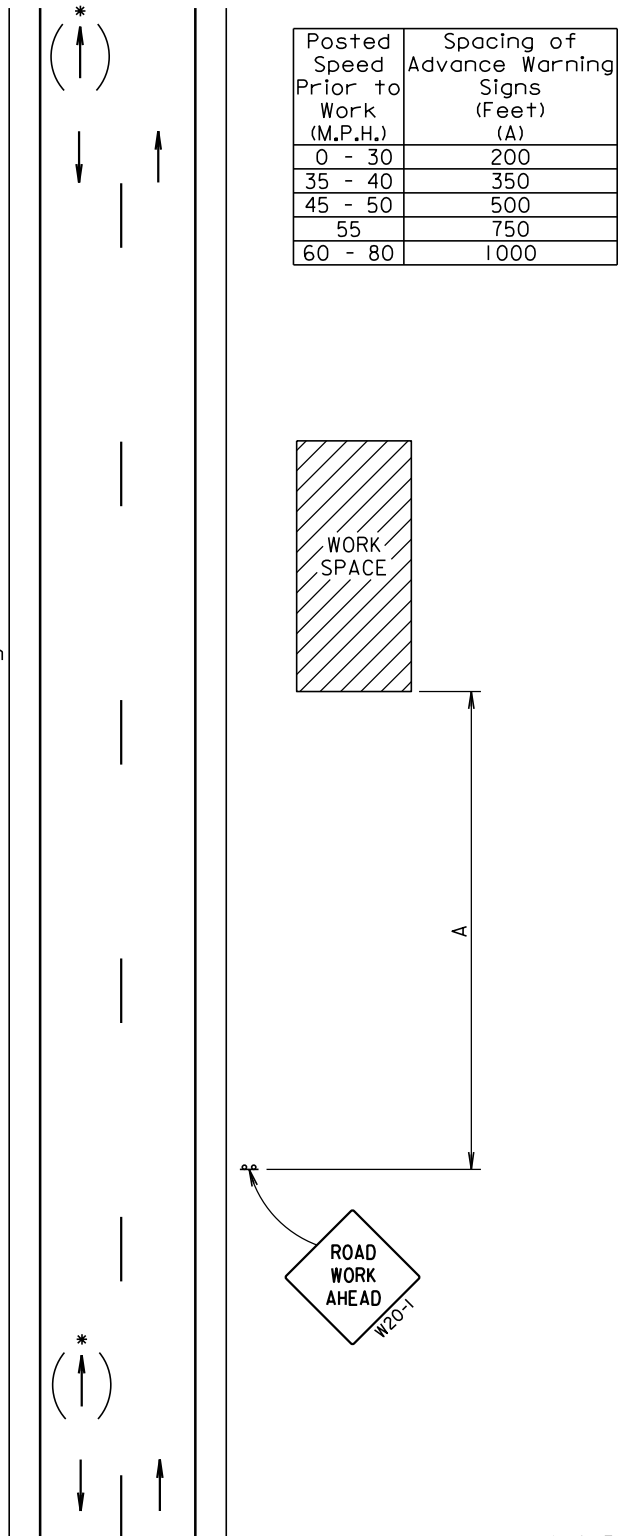
The signs illustrated are not required if the work space is behind a barrier, more than 2 feet behind the curb, or 15 feet or more from the edge of any roadway.

The signs illustrated shall be used where there are distracting situations; such as: vehicles parked on shoulder, vehicles accessing the work site via the highway, and equipment traveling on or crossing the roadway to perform work operations.

The ROAD WORK AHEAD sign may be replaced with other appropriate signs, such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.

\* If the work space is on a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.

For short term, short duration, or mobile operations, all signs and channelizing devices may be eliminated if a vehicle with an activated flashing or revolving yellow light is used.



April 15, 2015

Published Date: 2nd Qtr. 2018

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## GUIDES FOR TRAFFIC CONTROL DEVICES WORK BEYOND THE SHOULDER

PLATE NUMBER  
634.01

Sheet 1 Of 1



Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet) (A)	Taper Length (Feet) (L)	Spacing of Channelizing Devices (Feet) (G)
0 - 30	200	180	25
35 - 40	350	320	25
45	500	600	25
50	500	600	50
55	750	660	50
60 - 65	1000	780	50

■ Channelizing Device

**END ROAD WORK**  
G20-2

The channelizing devices shall be drums or 42" cones if traffic control must remain overnight.

For short duration operations (1 hour or less) all channelizing devices may be eliminated if a vehicle with an activated flashing or revolving yellow light is used.

Worker signs (W21-1 or W21-1a) may be used instead of SHOULDER WORK signs.

A SHOULDER WORK sign should be placed on the left side of a divided or one-way roadway only if the left shoulder is affected.

The SHOULDER WORK sign on an intersecting roadway is not required if drivers emerging from that roadway will encounter another advance warning sign before they reach a work activity area.

WORK SPACE

*Published Date: 2nd Qtr. 2018*

**SDOT**

**GUIDES FOR TRAFFIC CONTROL DEVICES  
WORK ON SHOULDERS**

June 3, 2016

PLATE NUMBER  
**634.03**

Sheet 1 of 1

Posted Speed Prior to Work (M.P.H.)	Spacing of Advance Warning Signs (Feet) (A)	Spacing of Channelizing Devices (Feet) (G)
0 - 30	200	25
35 - 40	350	25
45	500	25
50	500	50
55	750	50
60 - 65	1000	50

- Flagger
- Channelizing Device

For low-volume traffic situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger may be used.

The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short duration operations (1 hour or less).

For tack and/or flush seal operations, when flaggers are not being used, the FRESH OIL sign (W21-2) shall be displayed in advance of the liquid asphalt areas.

Flashing warning lights and/or flags may be used to call attention to the advance warning signs.

The channelizing devices shall be drums or 42" cones.

Channelizing devices are not required along the centerline adjacent to work area when pilot cars are utilized for escorting traffic through the work area.

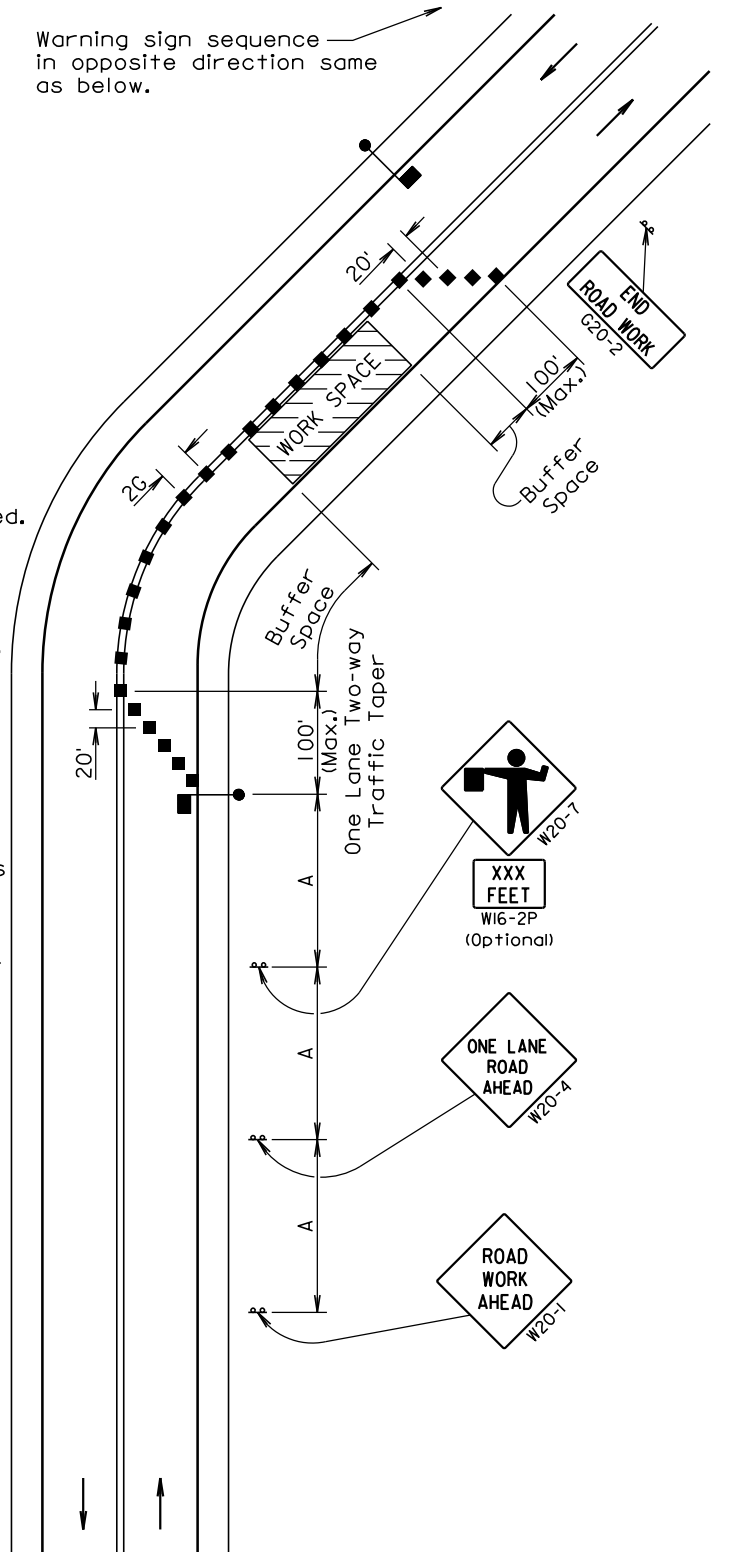
END ROAD WORK  
G20-2

Channelizing devices and flaggers shall be used at intersecting roads to control intersecting road traffic as required.

The buffer space should be extended so that the two-way traffic taper is placed before a horizontal or vertical curve to provide adequate sight distance for the flagger and queue of stopped vehicles.

The length of A may be adjusted to fit field conditions.

Warning sign sequence in opposite direction same as below.



June 3, 2016

Published Date: 2nd Qtr. 2018

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**GUIDES FOR TRAFFIC CONTROL DEVICES  
LANE CLOSURE WITH FLAGGER PROVIDED**

PLATE NUMBER  
**634.23**

Sheet 1 of 1